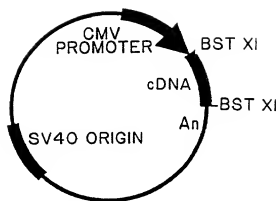


Divide a cDNA library in a mammalian expression vector into pools of 1000 clones, prepare DNA from each pool



Transfect COS cells directly on microscope slides



Bind [125 I] activin A, wash cells, fix, dip in photographic emulsion



Subdivide bacteria from positive pool and rescreen; repeat until receptor clone is pure

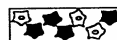


FIG. 2

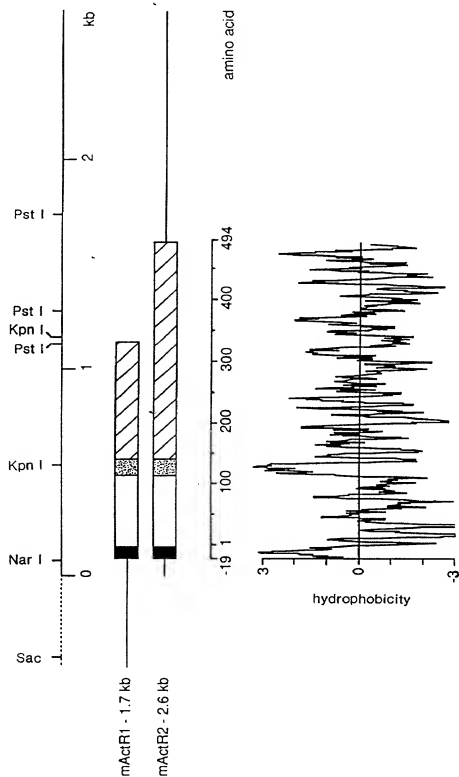


FIG. 3

Act R (174) L L E V I G R G F V V M K A Q L E I V A V K F P P D K Q S W E E E V S L P M W H I N L O G G A E K R T S V D V I M L T P A
 Daf (295) L T C R V G R G V W S R G D Y E V A V K F F N D D E P A F H E E E I F T R M L H N L R L G S D R V I T G F V T L M L T E
 Subdomain I II III IV

	V	VIA	VIB	VII
Subdomain				
Daf	HYGSLDEFLNVTWYTYNLNRASGLAHVHNGISKESPAARHDIKSNINNTCTCGIHL			
Act R	FFHSLSDFPLNVAWSMNELCHLAETAGLATHETIGSKCKGRATIRDIKSNVLNNTATMAJDEL			

Act R * * * * *

Daf PALKF · RENGAGDTHGCGRYRPPH · LEGAIF · FOR · DAFRLRD · WAMTV · WE · LARCTA · TGGH · DEYMLP
LSLSPKAASDIINENYGGRYRPPH · INST · FT · FESYOC · D · W · F · W · WE · YLR · · · · · DE · W · LP · REA

VIII IX

Subdomain

[illegible]

FIG. 4

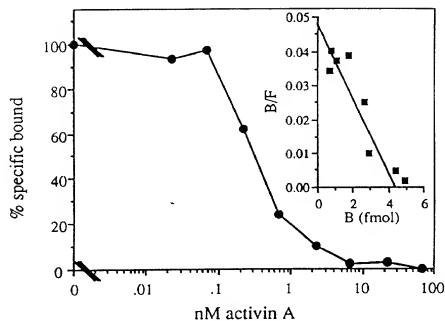


FIG. 5A

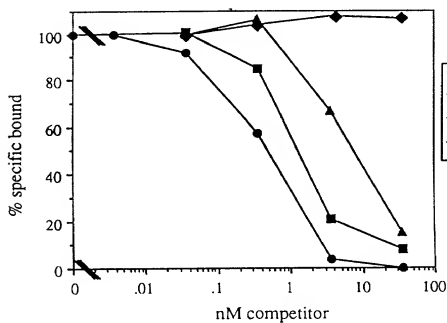


FIG. 5B

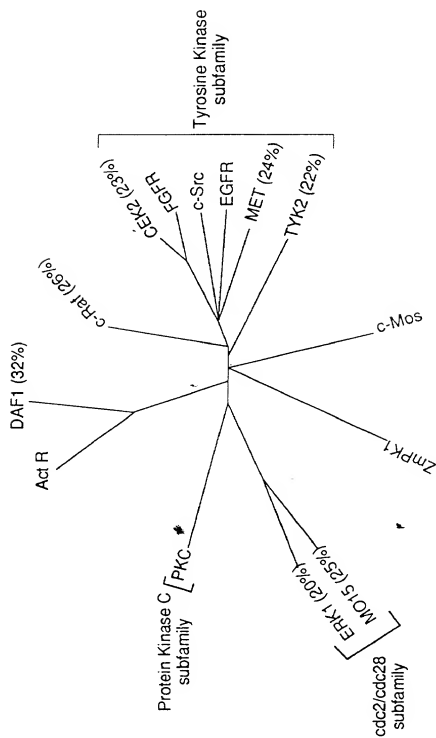


FIG. 6